

Molecular motions and phase transitions in solid tris(n-propylammonium) hexabromobismuthate(III).

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Streszczenie

The proton NMR second moment and spin-lattice relaxation time for polycrystalline tris(n-propylammonium) hexabromobismuthate ($(n\text{-C}_3\text{H}_7\text{NH}_3)_3\text{BiBr}_6$ (nPBB)) are measured from 70 to 290 K. The results are interpreted in terms of the methyl and ammonium group reorientations for which the activation parameters are determined. In addition linear thermal expansion measurements are carried out in the temperature range 270 to 295 K. A distinct anomaly in the thermal dilation occurs at 281 K indicating a first-order phase transition.

Adres publiczny

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